

Fujisaki, Yoshisato.

EFFECT OF MOLECULAR WEIGHT DISTRIBUTION

Rept. 2 of Studies on the Effects of Molecular Weight

and Molecular Weight Distribution on the Spinning

Property of Concentrated Polyacrylonitrile Solutions.

[1962] 12p. 3 refs.

Order from S.A. 11-100

62-14-14

Trans. of Kobunshi Kagaku (Japan) 1961, v. 18, no. 1, p. 667-677.

DESCRIPTION: Synthetic fibers. *Acrylonitriles.
*Molecular weight. Distribution. Physical properties.
Nitric acid.

Unfractionated polyacrylonitriles were dissolved in 7
nitric acid. These solutions were extruded into dilute
nitric acid solution. After the coagulation the threads
scored. Relations between the stretchability of coag-
ulated threads was obtained and those of their solution.
(Materials-Textiles, TT, v. 9, no. 3) (over)

Yagi, S., Kunii, D. and others.
STUDIES ON AXIAL MIXING OF PARTICLES IN
MOVING BEDS. [1962] 11p.
Order from ATS \$17.55 ATS-57P58]

Trans. of Kagaku (Kagaku) (Japan) 1961, v. 25, no. 6,
p. 469-476.

DESCRIPTORS: *Particles, Motion, *Fluidized solids.

(Engineering--Chemical, IT, v. 7, no. 11)

62-12808

- I. Yagi, S.
- II. Kunii, D.
- III. ATS-57P58]
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

63-12012

Asai, H.
CONCENTRATED CYCLOHEXANONE SOLUTION OF
POLY (VINYL CHLORIDE). Pt. 1 of Properties of Con-
centrated Solutions of High Polymers. [1962] 8p.
Order from ATS \$11.00 ATS-56P64]

Trans. of Kobunshi Kagaku (Japan) 1962, v. 19, no.
201, p. 19-24.

DESCRIPTORS: *Polymers, Solutions, *Cyclohexanones,
*Vinyl chlorides, Chemical properties, Chlorides,
Vinyl radicals.

I. Asai, H.
II. Title: Properties ...
III. ATS-56P64]
IV. Associated Technical
Services, Inc., East
Orange, N. J.

(Chemistry--Organic, TT, v. 9, no. 2)

Office of Technical Services

Fractionation of Polyacrylonitrile. III.
Fractional Precipitation in the Dimethyl Sulfoxide-
Toluene System (Introductory Paragraphs Omitted),
by Y. Fujisaki.

JAPANESE, per, Kobunshi Kagaku. Vol XIX, No 201,
1962, pp 49-56.

Possibly to Come From Contacts
per 10 Dec 62 memo
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Sci - Chem
Dec 62

V. Precipitation Fractionation of Polyacrylonitrile
(Introductory Paragraphs Omitted), by Y. Fujisaki.

JAPANESE, per, Kobunshi Kagaku, Vol XIX, No 201,
1962, pp 64-72.

Possibly to Come From Contacts
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Study on Polyacrylonitrile Solution. II. Molecular Weight Dependence of Intrinsic Viscosity, Second Virial Coefficient and end-to-end Distance of the Polymer Chain, (Introductory Paragraphs Omitted), by J. Jujisaki.

Kobunshi Kagaku,

JAPANESE, per, ~~XXXXXXXXXXXXXXXXXXXX~~, Vol XIX, No 201, 1962, pp 73-80.

Possibly to Come From Contacts
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III. Intrinsic Viscosity-Temperature Relationships
for Polyacrylonitrile in Various Solvents, by Y.
Fujisaki.

JAPANESE, per, Kobunshi Kagaku, Vol XIX, No 201,
1962, pp 81-93.

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63-17781

Kitazawa, T., Tadokoro, H. and others.
THE RELATIONSHIP BETWEEN INFRARED ABSORPTION SPECTRA AND THE DEGREE OF POLYMERIZATION OF POLYOXYMETHYLENE, AND THE ORIENTATION OF MOLECULAR CHAINS IN FILM SAMPLES. [1963] 8p.

Order from ATS \$10.00

ATS-29Q69J

Trans. of Kokunshi Kagaku (Japan) 1962, v. 19,
no. 203, p. 148-153.

DESCRIPTORS: *Infrared films, *Infrared photography,
Absorption, *Absorption spectrum, Polymerization,
Polymers, Spectra (Infrared).

- I. Title: Polyoxymethylene
- I. Kitazawa, T.
- II. Tadokoro, H.
- III. ATS-29Q69J
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

A7C 37-2850

Materials - Photographic. 177 v. 10, no. 6.

Preparation of Blockcopolymer of Polyaminotriazole
and Polyacrylonitrile, by Y. Iwakura.

JAPANESE, par, Kobunshi Kagaku, Vol XIX, No 203, 1962,
pp 161-168.

ML Ref: 5828.4 1962 (10089)
(Lonn)

Bei -
Jul 63

238,375

Iodine Treatment of Nylon 6. II. Change in Infra
Red Spectrum of Nylon 6 by Iodine Treatment, by
H. Arimoto.

~~JAPANESE~~

JAPANESE, per, Kobunshi Kagaku, Vol XIX, No 204,
1962, pp 205-211.

HLI Ref: 5828.4 1962 (101X2)
(Loan)

238,372

Sol - M/M
Jul 63

63-10084

Noro, Ken and Takida, Hiroshi.

INVESTIGATION OF THE REDOX SYSTEM. Rept. 1
of Solution Polymerization of Vinyl Acetate with Redox
Initiator at Low Temperature. [1962] 14p. 32 refs.
Order from SLA \$1.60 63-10084

Trans. of Kobunshi Kagaku (Japan) 1962, v. 19, no. 204,
p. 239-244.

DESCRIPTORS: *Vinyl radicals, *Acetates, *Polymeri-
zation, *Oxidation-reduction reactions, Catalysts,
Reagents, Methanols, Solutions, Vinyl plastics.

Methanol solution polymerization of vinyl acetate (VAc)
was conducted at 30°C and at 0°C with respect to redox
systems regarded as being effective up to now, redox
systems which are expected to be effective, and, for
comparison, a number of single initiators which have
been claimed to be low-temperature active. The objec-
tive was to acquire information regarding redox low-
temperature solution polymerization of VAc.
(Chemistry--Organic, TT, v. 9, no. 11)

I. Noro, K.
II. Takida, H.
III. Title: Solution ...

Office of Technical Services

Noro, Ken and Takida, Hiroshi.

POLYMERIZATION BY t-BUTYL PERBENZOATE- λ -ASCORBIC ACID SYSTEM. Rept. 2 of Solution Polymerization of Vinyl Acetate with Redox Initiator at Low Temperatures. [1962] 14p. 30 refs.

Order from SLA \$1.60

62-18982

Trans. of Kobunshi Kagaku (Japan) 1962, v. 19, no. 204, p. 245-251.

DESCRIPTORS: *Polymerization, Butyl radicals, Benzoates, *Ascorbic acid, *Vinyl radicals, *Acetates, Oxidation-reduction reactions, Low-temperature research, Methanols.

Solution polymerization of vinyl acetate in methanol was studied in the temperature range of 30° to -20° C with t-butyl perbenzoate- λ -ascorbic acid. The optimum mole ratio of t-butyl perbenzoate for λ -ascorbic acid was 4/1. The average apparent activation energy for (Chemistry--Organic, TT, v. 9, no. 6) (over)

62-18982

I. Noro, K.
II. Takida, H.
III. Title: Solution ...

Office of Technical Services

62-18981

Noro, Ken and Takida, Hiroshi.
STUDIES ON POLYVINYL ALCOHOL. Rept. 3 of Solution Polymerization of Vinyl Acetate with Redox Initiator at Low Temperatures. [1962] 9p. 11 refs.
Order from SLA \$1.10

62-18981

I. Noro, K.
II. Takida, H.
III. Title: Solution ...

Trans. of Kobunshi Kagaku (Japan) 1962, v. 19, no. 204, p. 251-255.

DESCRIPTORS: *Polyvinyl alcohol, *Polymerization, *Acetates, *Vinyl radicals, *Oxidation-reduction reactions, Infrared spectroscopy, Ultraviolet spectroscopy, Low-temperature research.

Properties of polyvinyl alcohol derived from polyvinyl acetate which was polymerized in methanol with t-butyl-L-ascorbic acid redox initiator at low temperatures were studied. It was found that the equilibrium degree of swelling and densities of PVA films obtained at various temperatures had not significant difference but the (Chemistry--Organic, TT, v. 9, no. 6) (over)

Office of Technical Services

Crosslinking of Polyethylene with Dicumyl
Peroxide and Sulfur. Part 2. Effect of Sulfur
on the Decomposition of Dicumyl Peroxide,
by M. Ogawa.
JAPANESE, per, Kobunshi Kagaku, Vol 19, 1962,
pp 261-266.
ATS-JS-157

Sci-Chem
Mar 70

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Nakano, S.
POLYMERIZATION OF VINYL METHYL ETHER.
[1963] Sp.

Order from ATS \$9.00

ATS-21069J

Trans. of Kobunshi Kagaku (Japan) 1962, v. 19, no. 204,
p. 276-280.

DESCRIPTORS: Vinyl radicals, Methyl ethers,
*Polymerization.

(Chemical Abstracts, 17, v. 10, no. 3)

68-17446

I. Nakano, S.
II. ATS-21069J
III. Associated Technical
Services, Inc.,
East Orange, N. J.

AD 68-17446

Office of Technical Services

Molecular Weight Distribution and Solution Properties. Effect of Molecular Weight Distribution on Viscosity Relationships, by N. Yamada.

JAPANESE, per, Kobunshi Kagaku, Vol 19, 1962, pp 307-312.
HLL Ref:5828.4P (N.7760)

Sci-Chem
Feb 70

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TT-64-12326

Hamada, Fumiyuki.
THERMAL DEGRADATION OF POLYPROPYLENE.

Jan 64
Order from LSA \$20.00

Trans. of the Chemical Society of Japan 1962, v. 19,
no. 207, p. 402-406.

DESCRIPTORS: *Propenes, Ethylenes, Pyrolysis

I. Hamada, F.
II. Literature Service
Associates, Bound
Brook, N. J.

(Materials--Plastics, TT, v. 11, no. 11)

Office of Technical Services

Studies on Thermal Properties of Vinyl Chloride
Copolymers. Pt.I, Effects of Chemical Composition
of Copolymers, by S.Koyanagi.
JAPANESE, per, Kobunshi Kagaku, Vol.19, No.207,
pp.431-435, 1962.
SLA-TT-66-11324

Mat/Metal
Aug 66

308,956

Heat Treatment of Nylon 6. 10. Heat Treatment and
the Diffusion of Dyestuffs, by A. Koshino, T. Kakishita,
JAPANESE, per Kobunshi Kagaku, Vol. 19, No. 00.1961.
EP 506-517
GB 56/2.1721

Sci -
Aug 67

106-501

Analysis of Temperature Dispersion Curves of
Dynamic Modulus in Cross-Linked Polymers, by
Kyoichi Shibayama, 8 pp

JAPANESE, per, Kobunshi Kagaku, Vol XIX. 1962,
pp 543-546. 9219726

*AEC - SC - T - 529

Sci - Nucl Sci
Jan 64

Crystallinity and Stereoregularity of
Polybutene-1. Part I. Crystallinity,
by A. Nishioka, K. Yanagisawa.
JAPANESE, per, Kobunshi Kagaku, Vol 19,
No 211, 1962, pp 667-671.
NTC 69-11455-07D

Sci-Chem
July 69

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63-22812

Ashikava, Nobuyuki.

POLYMERIZATION OF VINYL CHLORIDE WITH
TRIETHYLALUMINUM METAL TRANSITION COM-
POUND: ADDITIVE CATALYST. [1963] 16p

Order from K-H \$16.00

K-H-12816

Trans. of Kobunshi Kagaku (Japan) 1962, v. 19, no. 212,
p. 728-733.DESCRIPTORS: *Polyvinyl chloride, Polymerization,
Ethyl radicals, Aluminum compounds, Transition
elements, Additives, Catalysts.

(Materials--Plastics, TT, v. 10, no. 12)

I. Ashikava, N.

II. Title: Additive ...

III. K-H-12816

IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Kakurai, T. and Noguchi, T.
GELATION IN THE REACTIONS OF EPOXY RESIN
WITH AMINES. [1964] 6p 1ref
Order from SLA \$1.10

TT-64-14265

Trans. of Kobunshi Kagaku (Japan) 1963, v. 20, no. 213,
p. 17-21.

TT-64-14265

I. Kakurai, T.
II. Noguchi, T.

(Materials--Plastics, TT, v. 12, no. 2)

Office of Technical Services

Kakurai, Toshio and Noguchi, Tatsuya.
HARDENING REACTIONS OF EPOXY-RESINS WITH
AROMATIC AMINES, V. [1963] [8p] 4refs
Order from SLA \$1.10 TT-64-10306

Trans. of Res. Inst. Chem. Ind. Japan 1963, v. 20,
no. 213, p. 27-26.

DESCRIPTORS: *Epoxy plastics, *Amines, *Methanes,
*Hardening, Reaction Products, Mixture, Formulation

(Materials--Plastics, TT, v. 11, no. 9)

TT-64-10306

1. Title: p,p'-diaminodiphenylmethane
1. Kakurai, T.
11. Noguchi, T.

Office of Technical Services

Kakurai, T., Asanuma, H., and Noguchi, T.
GELATION IN THE EPOXY RESIN-AMINE HARD-
ENER SYSTEMS. [1964] [14p] 6refs
Order from SIA \$1.60

TT-64-14266

Trans. of Kobunshi Kagaku (Japan) 1963, v. 20, no. 213,
p. 27-33.

(Materials--Plastics, TT, v. 12, no. 2)

TT-64-14266

I. Kakurai, T.
II. Asanuma, H.
III. Noguchi, T.

Office of Technical Services

63-17771

Imanishi, Y., Mizote, A. and others.

ESTIMATION OF THE REACTIVITY OF THE
GROWING ION FROM THE CHAIN TRANSFER RE-
ACTION IN CATIONIC POLYMERIZATION. [1963] 9p.
Order from ATS \$13.80 ATS-98Q69J

Trans. of Kobunshi Kagaku (Japan) 1963, v. 20,
no. 213, p. 58-64.

DESCRIPTORS: *Polymerization, *Ion exchange,
Exchange reactions, Reaction kinetics, Polymers,
*Molecular structure.

- I. Imanishi, Y.
- II. Mizote, A.
- III. ATS-98Q69J
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

(Chemistry--Organic, TT, v. 10, no. 8)

63-16418

Sakagushi, Yasuochi; Nishino, Jun, and Nitta, Takayoshi.

THE EFFECT OF ADDED SOLVENTS ON DEACETYLATION OF POLYVINYL ACETATE IN METHANOL. [1963] 10p. 9 refs.
Order from SLA \$1.10

63-16418

Trans. of Kobunshi Kagaku (Japan) 1963, v. 20, no. 213, p. 85-90.

DESCRIPTORS: *Vinyl radicals, *Acetyl radicals, *Acetates, Solvent action, Additives, Methanols, Catalysts, Reaction kinetics.

Deacetylation of polyvinyl acetate was conducted in methanol using several types of acids or alkalis as catalyst, and the effect of the added solvents on the reaction velocity was studied. When a small amount of water was added to the reaction solution, the deacetyla- (Chemistry--Organic, TT, v. 10, no. 7) (over)

- I. Title: Deacetylation
- I. Sakagushi, Y.
- II. Nishino, J.
- III. Nitta, T.

Office of Technical Services

Okamura, Seizo, Higashimura, Toshinobu, and
Seno-o, Tadao.
THE EFFECT OF CATALYSTS AND SOLVENTS ON THE
TRANSITION POLYMERIZATION OF ACRYLAMIDE.
12p 10refs
Order from SLA \$1.60

TT-64-16038

Trans. of [Kobunshi Kagaku] (Japan) 1963, v. 20,
no. 218, p. 364-365.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16038

- I. Okamura, S.
- II. Higashimura, T.
- III. Seno-o, T.

Office of Technical Services

Suminoe, T., Yamazaki, N., and Kambara, S.
COPOLYMERIZATION OF PROPYLENE WITH
BUTADIENE OF ETHYLENE BY ZIEGLER TYPE
CATALYSTS. [Apr 64] 9p

Order from ATS \$14.50

ATS-40R75]

Trans. of Kobunshi Kagaku (Japan) 1963, v. 20, no. 219,
p. 461-466.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-22085

- I. Suminoe, T.
- II. Yamazaki, N.
- III. Kambara, S.
- IV. ATS-40R75]
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Kamide K. and Kawai, T.
DETERMINATION OF MOLECULAR PARAMETERS
THROUGH CONSIDERATION OF THE DRAINING
EFFECT. [Apr 64] 9p
Order from ATS \$12.65 ATS-42R75J

Trans. of Kobunshi Kagaku (Japan) 1963, v. 20,
no. 220, p. 506-511.

(Chemistry--Physical, TT, v. 12, no. 2)

TT-64-22112

- I. Kamide, K.
- II. Kawai, T.
- III. ATS-42R75J
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

92 + 94 Effects of Crosslink Density and
Swelling on the Properties of Epoxy
Resins. Part I. Vitrification, by
Kyoichi Shibayama, Minekazu Kodama, 6 pp.
JAPANESE, per, Kobunshi Kagaku, No 20,
1963, pp 587-595. 9227058
AEC/Paradise Trans

Sci-Chem
Apr 65

277,059

RECORDS OF CINCINNATI RAILROAD AND RAILROAD
ON THE PROPERTY OF STONY HILLS, CO.
RECORDS OF CINCINNATI RAILROAD, STONY HILLS, CO.
RECORDS, per, HOBBSVILLE, OHIO, CO.
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Single Crystals of Polyethylene Terephthalate,
by N. Hirai, S. Fujita, et al. 9 pp.
JAPANESE, per, Kobunshi Kagaku, Vol 21, No 226,
1964, pp 97-102.
ATS-20R76J

Sci/Chemistry
Jul 66

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Initiator Reactivities in Graft Copolymerization
by T. Maekawa, K. Hayashi.
JAPANESE, par, Kobunshi Kagaku, Vol 21, No 229,
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NTC-69-16299-111

Sci-Materials
Feb 70

402,2904

Stepwise Solvent Extraction of Polypropyl-
ene: Relation Between Stereoregularity
and Molecular Weight, by K. Imaguchi,
H. Kojima, A. Takahashi, 9 pp.
JAPANESE, per, Kobunshi Kagaku,
Vol 21, No 231, 1964, pp 403-408.
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Sci
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Anionic Polymerization of Aldehydes. Pt.IV.
Polymerization of Aldehydes with Sodium
Naphthalene Complex, by H.Takida and K.Noro.
JAPANESE, per, Kobunshi Kagaku, Vol.21, No.231,
pp.467-472, 1964.
SLA-TT-66-11321

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The Anomalous Thermal Expansion of Poly-
ethylene Terephthalate, by I. Kuriyama,
K. Temita.

JAPANESE, per, Kobunshi Kagaku, Vol 21,
No 234, 1964, pp 584-587.

NTC 69-11454-07D

Sci-Chem
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387,087

NCH-202 363 (p. 379-383)

Field 7D

Sakaguchi, Y.; Nishino, J.; Sakai, K.; Tsuda, M.
POLYELECTROLYTIC BEHAVIOR OF COPOLYMERS OF
MALEIC ANHYDRIDE AND STYRENE, VINYL ACETATE,
AND VINYL BENZOATE. Apr 65, 5p, 8 refs.
Order from ICE in International Chemical Engineering,
v5 n2

I. American Institute of
Chemical Engineers
New York, N. Y.

Trans. of Kobunshi Kagaku (Japan) v21 n235 p673-7 1964.
Another trans. is available from ATS \$14.65 as ATS-13881J.

TT-65-13875

Field 11E

Ueda, N.; Nukushina, Y.; Yokouchi, R.
CRYSTALLINITY AND ORIENTATION OF
COPOLYESTER FIBERS. 20p, 5refs.
Order from SLA: \$1.60 as TT-65-13875

Trans. of Kobunshi Kagaku (Japan) v21 n236 p729-36
1964.

MR-667

Cross Linking of Polyurethane Fibres by After-Treatment
and the Resultant Change in the Mechanical Properties,
by K. Mizutani.

JAPANESE, per Kogyo Kagaku Zasshi, Vol. 69, No. 9, 1966
pp 1514-1516
CB 156/T.1721

Sci -
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118-500

Study on Changes of Degree of Crystallinity by Cold
Drawing of 6-Nylon Fibres, by H. Sotue, K. Hoshimoto.
JAPANESE, per Kogyo Kagaku Zasshi, Vol. 69, No. 11,
1966, pp 1889-1896
GE 156/T. 17.0

Sci -
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100-507

NCH-202 515 Field 111, 7C

Migamichi, X.
SOLUTION POLYMERIZATION OF ACRYLONITRILE IN
HOMOGENEOUS SYSTEM, 1965, 15p. TC-1243.
Order from TC: \$15.00 as TC-1243

Trans. of Kogyo Kagaku Zasshi (Japan) v66 p100-3 1963.

I. Trans-Chem
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NCH-202 363 (p. 384-389)

Field 7A

Kubushiro, K.; Hatano, M.; Kambara, S.
SYNTHESIS OF POLY-ALPHA-CHLOROACRYLONITRILE
AND ITS APPLICATION TO ORGANIC SEMICONDUCTORS.
Apr 65, 6p, 7refs.
Order from ICE in International Chemical Engineering,
v5, n2

Trans. of Kogyo Kagaku Zasshi (Japan) v67 n10 p1612-6
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Another trans. is available from ATS \$15.50 as ATS-15851J.

1. American Institute of
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Field 7A

Kuroiwa, S.; Nakamura, M.
NON-NEWTONIAN FLOW OF INDUSTRIAL PASTES.
Apr 65, 7p, 9refs.
Order from ICE in International Chemical Engineering,
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Trans. of Kogyo Kagaku Zasshi (Japan) v67 n10 p1624-9
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Another trans. is available from ATS \$19.85 as
ATS-14S31J, 14p.

I. American Institute of
Chemical Engineers
New York, N. Y.

NCH-202 363 (p.374-378)

Field 7A

Fujinaga, T.; Takagi, C.; Okazaki, S.
ELECTROLYTIC CHROMATOGRAPHY. Apr 65, 5p, 1ref.
Order from ICE in International Chemical Engineering,
v5 n2

Trans. of Kogyo Kagaku Zasshi (Japan) v67 n11 p1798-1801
1964.

I. American Institute of
Chemical Engineers
New York, N. Y.

Effect of Kinematic Viscosity on Liquid Flow
Between Rotating Concentric Cylinders.

JAPANESE, per, Kobunshi Takeda, Vol XVIII, 1961,
pp 609-612.

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Sci - Engr

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Excerpts From "Mineral Resources Reports of the
French Indochina Resources Survey group", 21 pp.
UNCLASSIFIED

JAPANESE, b1c, Kobuten Shigen; Futsuin Shigen Chosadan,
Vol II, Part 1, Tokyo, Mar 1944, pp 13-17, 381-388,
431-438.

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Econ - Mineral Resources
Sep 58

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Cultivating Communist Morals Among University
Students, by Yu Yong-sul, 7 pp.
HURENII, per, Kodang Kyonyak, No 10, Oct 1, 64,
pp 2-6.
JPRS 28668

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pp 142-144.
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How to Carry Out Thesis Concerning Socialist
Agricultural Communities in Our Country at
Agricultural colleges, by Yi Chang-su. [?]
KUMSANG, per, Kodang Kyoyuk, [?], Nov 1964,
pp 2-6.
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Teaching of Foreign Languages at Colleges, by
Kim Chang-sun, 6 pp.

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the Role of Teachers in the Field of Higher and
Technical Education, by Yang Hong-hwon, 7 pp.

KOREAN, per, Kodang Mit Kisul Kyoyuk, No 1,
P'yongyang, 1959, pp 22-24.

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Soc - Education, Journalism

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(NY-3202).

In Protest to the Liberalistic Tendencies Among
a Few Intellectuals, by Kwon Ui-sik, 7 pp.

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P'yongyang, 1959, pp 41-43.

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Sec - Education, Journalism
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Immediate Tasks of Newly Established Colleges
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